

1           14. The method defined in claim 13 wherein said portion  
2 of said conductor having said resistance is a piece of current  
3 supply line connecting the power line with said motor-control  
4 circuit.

1           15. The method defined in claim 13 wherein the voltage  
2 drop is measured and the current draw is calculated from said  
3 voltage drop by a computing unit forming part of said motor-control  
4 circuit.

1           16. The method defined in claim 13 wherein a current  
2 measured in said portion of said conductor is converted into a  
3 current draw of said pump.

1           17. The method defined in claim 13 wherein in  
2 calculating said current draw from said voltage drop, a computer  
3 unit forming part of said motor control circuit *(compensates for*  
4 regulating action in response to) a temperature of said portion of  
5 said conductor.

1           18. An electronically controlled pump assembly  
2 comprising:

3           an electric motor having a power line connected thereto  
4 for energizing said electric motor;

5           a motor control circuit connected to said motor and said  
6 power line for electronically controlling said pump assembly;

7 a pump driven by said motor; and  
8 means for measuring a voltage drop across at least a  
9 portion of a conductor <sup>in the form of a wire segment</sup> having a definite resistance and connecting  
10 said power line with said motor control circuit and calculating  
11 said current draw from said voltage drop.

1 19. The assembly defined in claim 18 wherein said  
2 portion of said conductor is a piece of resistance wire with a  
3 known specific resistance and a defined length.

1 20. The assembly defined in claim 18 wherein said  
2 portion of said conductor is a bridge between a plug contact to  
3 which said power line is connected and a printed circuit board  
4 carrying said motor control circuit, said bridge having a defined  
5 resistance.

1 21. The assembly defined in claim 18 wherein said  
2 resistance is between 1 and 5 mΩ.

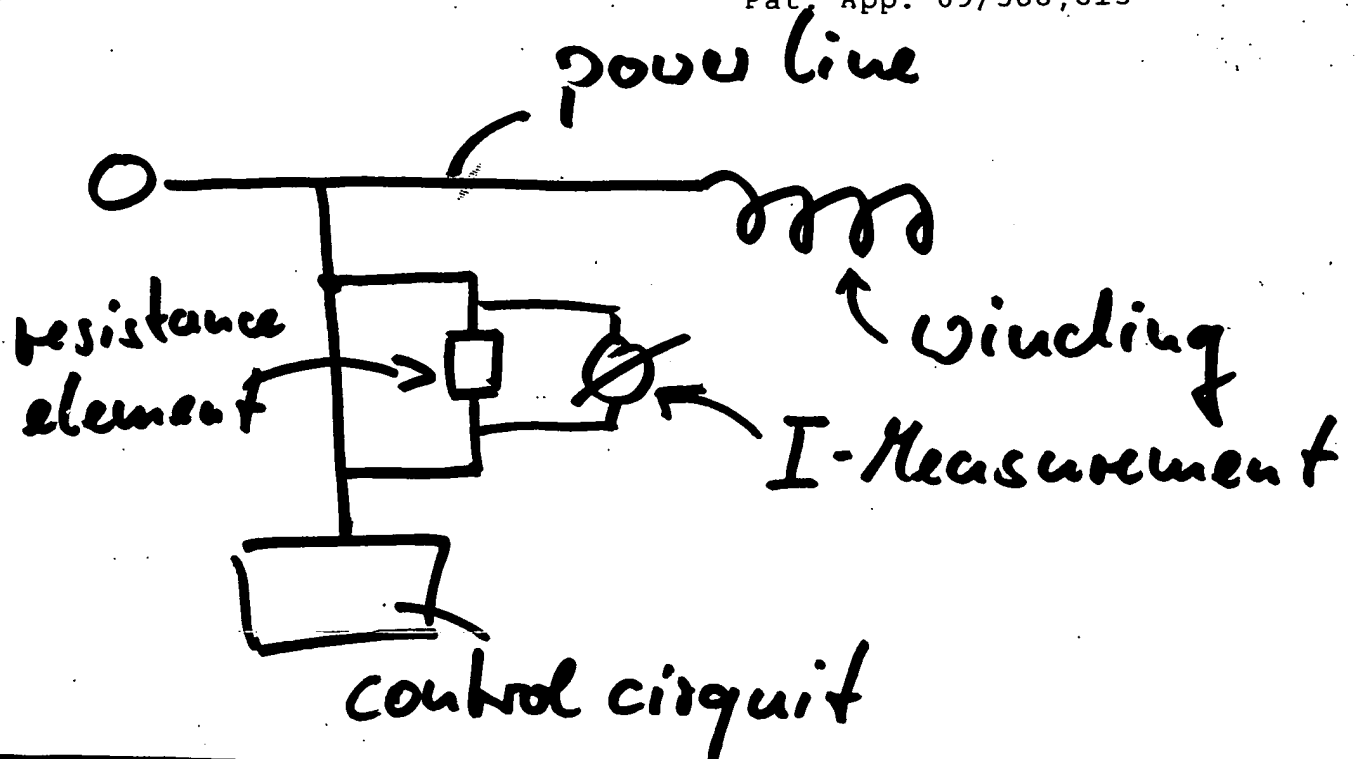
1 22. The assembly defined in claim 18, further comprising  
2 a processor forming part of said motor control circuit and  
3 constituting the means for measuring and calculating.

1 23. The assembly defined in claim 18 wherein said  
2 processor is provided to effect a regulatory action in response to  
3 the temperature of said portion of said conductor.

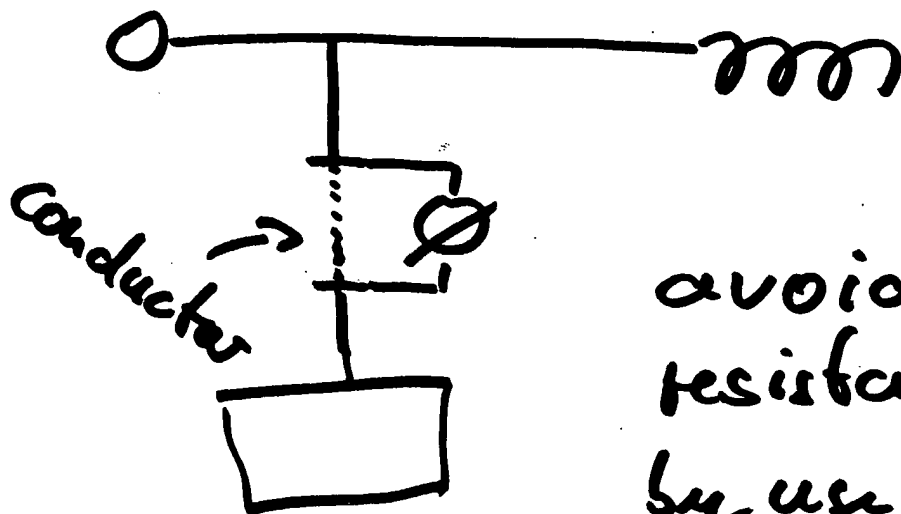
# State of the art

Pat. App. 09/388,813

21222



invention



avoid the  
resistance element  
by use of a  
conductor having  
known resistance.

Claims 13-23 are thus deemed to be allowable and an early Notice to that effect is earnestly solicited.

Respectfully submitted,  
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Enclosures: Claims 13, 17 and 18  
Marked-up version of claims 13, 17, 18  
Sketch showing invention